

HD Series

HD9-11L, HD9-12L, HD9-18L, HD9-21L, HD9-24L

The Heavy Duty range of pneumatic masts is the largest, most rugged in the SMC portfolio. Designed to the highest possible specifications, these masts are used where extreme head loads need to be supported and where greater extended heights with maximum wind loading are required.

The flexibility of this range comes from using aluminium tubes that have smaller increments in diameter. This gives masts in the range larger top sections, in turn delivering a stronger mast. These smaller increments allow the HD range to contain up to 12 sections, letting HD masts reach greater extended heights from shorter retraction and giving more flexibility in extended heights, retracted heights and head-loads.

The HD Range caters to special applications that require accommodating large or heavy headloads or demanding maximum directional stability. From mounting video cameras with telephoto lenses to supporting microwave dish antennas for Electronic News Gathering/Outside Broadcast, these masts rise to the challenge. Other applications include direction-sensitive antennas or devices, CCTV, floodlighting, anemometers, and survey equipment. The HD Range is engineered to handle the toughest tasks with ease and precision.

Typical Applications:

- CCTV
- Mobile cell sites
- Floodlighting
- Anemometers
- Survey equipment
- Direction sensitive antennas or devices
- Mounting video cameras fitted with telephoto lenses
- Microwave dish antennas for Electronic News Gathering/Outside Broadcast
- UAV/Drone jamming equipment



Mast	Height Extended (m)	Height Retracted (m)	Number of sections	Top Section Diameter (mm)	Vertical Headload	Max Wind Speed Unguyed (kph)	Sail Area (m ²)
HD9-11L	10.7	2.4	7	152	312	140	1.1
HD9-12L	12.1	2.46	8	140	264	110	1.1
HD9-18L	18.1	2.71	12	89	90	55	1.1
HD9-21L	20.7	4.33	6	165	140	65	1.1
HD9-24L	24.1	4.39	7	152	90	50	1.1



Mast Mounting Options and Accessories



Mounting Brackets

For mounting masts to the vertical surface of a vehicle or building, the kit comprises two brackets. The aluminium top bracket has one half detachable to allow for removal of the mast without disturbing the bracket fixings.

It incorporates Teflon bearing rings to protect the mast and a thumb screw for locking it in any desired azimuth position. (Hole centres NH mast 150mm for M10 bolts).



Compressor Remote Control

This is a 'three position' switch. It enables the mast to be extended, retracted or held at any height.

These switches should be ordered with the compressor during manufacture.

Compressor Range and Extension Times

All models incorporate a pressure controlled switch to maintain the correct mast working pressure.

They are quiet, maintenance free and assembled from components that have a proven reliability over many years.



Mast Cover NLB

For weather protection when mast is not in use. Made of strong waterproof material. Available as an end cover or a full mast cover. Every mast in our range has an available cover.



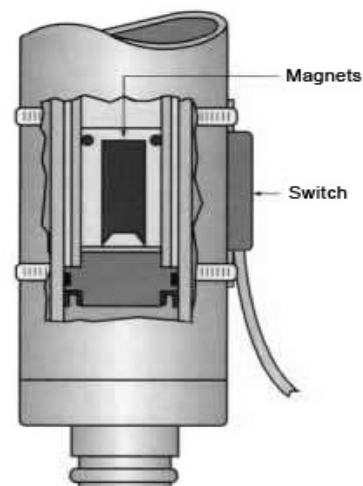
Vehicle Fitment

For mounting masts through the roof of a vehicle or shelter. The assembly comprises an upper and lower aluminum bearing.

The upper has three separate components, a flange fitted with a Teflon ring that is bolted to the outer skin of the vehicle, a tapping plate and a weatherproof shield that clamps to the mast.

The lower bearing base plate has a Teflon disc to permit easy rotation of your mast and a thumb screw for locking it in position.

Mast	Height Extended
NC2	1.2
NC3	2.7
NC4	On Request



Magnetic Safety Switch MAG/50, MAG/63, MAG/76

This switch provides an audible or visual warning when the telescopic mast is not fully retracted. In vehicles, it can interrupt the ignition circuit via a relay to prevent movement.

The switch, mounted on the mast's outer tube, is triggered by magnets at the bottom of the inner tube.

These magnets are housed in aluminium, easily inserted into the mast's top section without dismantling, and secured by a neoprene O-ring.



HD Tilt Over Post

This is ideal for mounting a HD mast horizontally, enabling quick and easy deployment in minutes. Built to our usual high standards, it provides a robust base for your telescopic mast.